Section 1. Registration Information

Source Identification

Facility Name:	City of Peoria, Greenway Water Treatment Plant
Parent Company #1 Name:	None
Parent Company #2 Name:	None

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	27-Aug-2010
Postmark Date:	27-Aug-2010
Next Due Date:	27-Aug-2015
Completeness Check Date:	09-Jan-2014
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0017 8103
Other EPA Systems Facility ID:	None

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	2494128
Parent Company #1 DUNS:	
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	7300 W Greenway Road
Street 2:	
City:	Peoria
State:	ARIZONA
ZIP:	85831
ZIP4:	4486
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.626389
Longitude (decimal):	-112.215556
Lat/Long Method:	GPS Code Measurements (Psuedo Range) Standard Positioning Service SA OFF
Lat/Long Description:	Process Unit
Horizontal Accuracy Measure:	2
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

Owner or Operator

Operator Name:	City of Peoria
Operator Phone:	(623) 773-7181

Mailing Address

Operator Street 1:	8401 W. Monroe St.
Operator Street 2:	
Operator City:	Peoria
Operator State:	ARIZONA
Operator ZIP:	85345
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Michael D. Weber
RMP Title of Person or Position:	Deputy Utilities Director
RMP E-mail Address:	mike.weber@peoriaaz.gov

Emergency Contact

Emergency Contact Name:	Ray Schultz
Emergency Contact Title:	Greenway WTP Supervisor
Emergency Contact Phone:	(623) 773-8355
Emergency Contact 24-Hour Phone:	(602) 402-4435
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	raymond.schultz@peoriaaz.gov

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	www.peoriaaz.com

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC

Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	13
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	

Air Operating Permit ID:

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	
Last Safety Inspection Performed By an External Agency:	Never had one

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Workplace Safety Specialists
Preparer Phone:	(480) 649-2851
Preparer Street 1:	1122 S. Greenfield Rd. Suite 104
Preparer Street 2:	
Preparer City:	Mesa
Preparer State:	ARIZONA
Preparer ZIP:	85206
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents: See Section 6. Accident History below to determine if there were any accidents reported for this RMP.

Process Chemicals

Process ID:	1000019453
Description:	Water disinfection
Process Chemical ID:	1000023125
Program Level:	Program Level 3 process
Chemical Name:	Chlorine
CAS Number:	7782-50-5
Quantity (lbs):	16000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000019453
Process NAICS ID:	1000019838
Program Level:	Program Level 3 process
NAICS Code:	22131
NAICS Description:	Water Supply and Irrigation Systems

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000015540

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	
Sumps:	
Other Type:	

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000017076

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	
Sumps:	
Other Type:	

Active Mitigation Considered

Sprinkler System:	
Deluge System:	
Water Curtain:	
Neutralization:	
Excess Flow Valve:	
Flares:	
Scrubbers:	Yes
Emergency Shutdown:	Yes
Other Type:	Chlorine piping from manifold to ejectors is under vacuum.

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

The process is visually observable from several central points by closed circuit television cameras. Observation windows are also in place in the disinfection building to allow visual inspection fom outside the building.

In the event of a chlorine leak in the disinfection building, monitoring equipment interlocks will activate the following when the alarm set point is exceeded: audible and visual alarms on, scale room emergency ventilation and scrubber on; building general ventilation and HVAC off; automatic valve operators shut on the Ton Containers. Emergency "panic buttons" can also manually activate the same actions.

The scrubber is rated at 3,150 acfm and its caustic soda packed bed capacity is 2,300 lbs of chlorine at 170 lbs/min. The manufacturer guarantees <5 ppm chlorine in the exhaust stack within these ratings. If 5 ppm is exceeded, the scrubber will shut down.

There is a ball check and diaphram check valve in each venturi ejector to prevent backflow to the chlorinator feed line if ejector water supply fails with pressure or restricition on the ejector discharge side.

A regulator at the chlorine manifold reduces the Ton container pressure to below atmospheric and the piping from there to the ejectors is under vacuum. Flow is maintained by the ejector pressure differential.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000019298
Chemical Name:	Chlorine
Flammable/Toxic:	Toxic
CAS Number:	7782-50-5
Prevention Program Level 3 ID:	1000016209
NAICS Code:	22131

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	03-Jun-2010

Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	03-Jun-2010

The Technique Used

What If:	
Checklist:	
What If/Checklist:	Yes
HAZOP:	
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	

PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	15-Jul-2010

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	
Corrosion:	
Overfilling:	
Contamination:	
Equipment Failure:	
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	

Process Controls in Use

Vents:	Yes
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	Yes
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	Yes
Backup Pump:	
Grounding Equipment:	
Inhibitor Addition:	
Rupture Disks:	
Excess Flow Device:	
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	Chlorine piping is under vacuum.

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	
Fire Walls:	Yes
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	Yes

Neutralization:	Yes
None:	
Other Mitigation System in Use:	

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	CCTV surveillance

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	Yes
Change Process Parameters:	
Installation of Process Controls:	
Installation of Process Detection Systems:	
Installation of Perimeter Monitoring Systems:	
Installation of Mitigation Systems:	
None Recommended:	
None:	
Other Changes Since Last PHA or PHA Update:	

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures):	03-Jun-2010

Training

Training Revision Date (The date of the most recent review or revision of training programs):	03-Jun-2010

The Type of Training Provided

Classroom:	Yes
On the Job:	Yes
Other Training:	

The Type of Competency Testing Used

Written Tests:	Yes
Oral Tests:	Yes
Demonstration:	Yes
Observation:	Yes
Other Type of Competency Testing Used:	

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures):	15-Jul-2010

Equipment Inspection Date (The date of the most recent equipment inspection or test):	03-Jun-2010
Equipment Tested (Equipment most recently inspected or tested):	chlorine manifold automatic shutoff valves

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):	
Change Management Revision Date (The date of the most recent review or revision of management of change procedures):	03-Jun-2010

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):	29-Apr-2002

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit):	01-Jul-2013
Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit):	01-Jul-2013

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):	
Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):	

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans):	03-Jun-2010

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures):	03-Jun-2010

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures):	03-Jun-2010

Contractor Safety Performance Evaluation Date
(The date of the most recent review or revision of
contractor safety performance):

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?):	Yes
Facility Plan (Does facility have its own written emergency response plan?):	Yes
Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?):	Yes
Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?):	Yes
Healthcare (Does facility's ER plan include information on emergency health care?):	Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan):	01-Jul-2013

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees):	29-Jul-2012

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated):	Peoria Fire Department
Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated):	(623) 773-7279

Subject to

OSHA Regulations at 29 CFR 1910.38:	Yes
OSHA Regulations at 29 CFR 1910.120:	Yes
Clean Water Regulations at 40 CFR 112:	Yes
RCRA Regulations at CFR 264, 265, and 279.52:	Yes
OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:	Yes
State EPCRA Rules or Laws:	Yes
Other (Specify):	

Executive Summary

¿The Goal is Zero¿ is the primary objective of the City of Peoria¿s Responsible Care Program. It requires our employees to achieve and sustain zero recordable incidents at the Greenway plant. It is a fundamental principle at the City that ALL incidents are preventable and that ¿The Goal is Zero¿ philosophy is truly a responsibility of ALL employees, ALL of the time.

While recognizing the difficulty of achieving a completely risk-free work environment, ¿The Goal is Zero¿ has become an integral part of everything that is done at the plant and has equal priority with production and water quality in the day-to-day operations of the Greenway Water Treatment Plant.

All personnel have the authority and the obligation to shut down any operation and/or stop any work that could result in an unsafe condition. No operation or work will be started unless it can be performed safely. Supervisory personnel have the responsibility of directing work in the safest manner possible.
Each employee has a vested interest in providing for and assisting with the development and implementation of work practices to protect employee health, welfare and the environment. All employees are responsible and accountable for safety performance including the responsibility to work safely at all times. If at any time an employee feels that an operation is unsafe or being performed in an unsafe manner, he or she has the responsibility to stop the job and communicate such to the supervisor.

In addition, all employees are expected to extend the City of Peoria¿s concepts and principles to the surrounding community, distributors, suppliers, contractors and residents.

Operational excellence at the Greenway Plant can be achieved only by demonstrating continuous improvement in environmental, health and safety performance. No job is so important, no task is so urgent that employees cannot take the time to assure that it is done in a safe and environmentally sound manner.